



Photo No.: 1, Date: 6/25/04, Courtesy Smart Associates

Description: A significant amount of sediments have been deposited near the canal entrance.



Photo No.: 2, Date: 6/25/04, Courtesy Smart Associates

Description: View of the mouth of the large impounded wetland to the right, looking upstream along the Souhegan.



Photo No.:3, Date: 6/25/04, Courtesy Smart Associates

Description: Facing upstream, large impounded wetland to the right.



Photo No.:4, Date: 6/25/04, Courtesy Smart Associates

Description: View of the large Palustrine Open Water (POW) wetland behind the Merrimack Fire Station.



Photo No.:5, Date: 6/25/04, Courtesy Smart Associates

Description: The impounded wetland has primarily aquatic and emergent vegetation, with some wetland shrubs along the edges.



Photo No.:6, Date: 6/25/04, Courtesy Smart Associates

Description: The large white pines in the background mark the wetland/upland edge.



Photo No.:7, Date: 6/25/04, Courtesy Smart Associates

Description: A small intermittent brook enters the wetland on the right side of this photo.



Photo No.:8, Date: 6/25/04, Courtesy Smart Associates

Description: Many sections of this wetland are dominated by water lilies (*Nuphar sp.*)



Photo No.:9, Date: 6/25/04, Courtesy Smart Associates

Description: A small island of uplands is located towards the westerly edge of the wetland. There is an area of Palustrine Forested (PFO) wetland located behind this island.



Photo No.: 10, Date: 6/25/04, Courtesy Smart Associates

Description: Wildlife species noted include Canada geese, Hooded mergansers, fish, frogs and turtles. Other species likely to use this area include muskrat, deer, wading birds and ducks, and other amphibians and reptiles.



Photo No.: 11, Date: 6/25/04, Courtesy Smart Associates

Description: During most years it appears that this wetland becomes dominated by vegetation, with pockets of open water shrinking as the summer season passes.



Photo No.: 12, Date: 6/25/04, Courtesy Smart Associates

Description: Some development has encroached on this wetland over the years.



Photo No.: 13, Date: 6/25/04, Courtesy Smart Associates

Description: The small intermittent brook enters this wetland just to the right of center.



Photo No.: 14, Date: 6/25/04, Courtesy Smart Associates

Description: View of the POW wetland facing south.



Photo No.: 15, Date: 6/25/04, Courtesy Smart Associates

Description: Several species of arrowhead (*Sagittaria sp.*) are found in this wetland.



Photo No.: 16, Date: 6/25/04, Courtesy Smart Associates

Description: From this view it appears that the intermittent brook has developed a channel through the wetland.



Photo No.: 17, Date: 6/25/04, Courtesy Smart Associates
Description: Close-up view of the intermittent brook confluence.



Photo No.: 18, Date: 6/25/04, Courtesy Smart Associates
Description: View of the confluence of the wetland with the river, facing southeast. The Merrimack Fire Station is to the left.



Photo No.: 19, Date: 6/25/04, Courtesy Smart Associates

Description: Close-up view of the dam and the confluence of the POW wetland.



Photo No. 20, Date: 8/6/04, Courtesy Smart Associates

Description: Typical embankment upstream of the Merrimack Village Dam.



Photo No. 21, Date: 8/6/04, Courtesy Smart Associates
Description: Close-up of typical embankment upstream of the MVD.



Photo No. 22, Date: 8/6/04, Courtesy Smart Associates
Description: Large white pines growing along the embankment.



Photo No. 23, Date: 8/6/04, Courtesy Smart Associates

Description: Scattered wetland plants found along the edges of the river in some locations



Photo No. 24, Date: 8/6/04, Courtesy Smart Associates

Description: Island in the middle of the river, created by deposits of sand.



Photo No. 25, Date: 8/6/04, Courtesy Smart Associates
Description: Sand exposed at the upstream edge of this island.



Photo No. 26, Date: 8/6/04, Courtesy Smart Associates
Description: Exit point of the secondary channel remnant, approximately $\frac{1}{4}$ mile upstream of the MVD.



Photo No. 27, Date: 8/6/04, Courtesy Smart Associates
Description: Secondary channel remnant facing upstream.



Photo No. 28, Date: 8/6/04, Courtesy Smart Associates
Description: Dominant presence of algae indicates little or no flow through the channel remnant.



Photo No. 29, Date: 8/6/04, Courtesy Smart Associates

Description: View of channel facing downstream to the river confluence.



Photo No. 30, Date: 8/6/04, Courtesy Smart Associates

Description: The inlet of the channel remnant is narrow and nearly overgrown with vegetation.

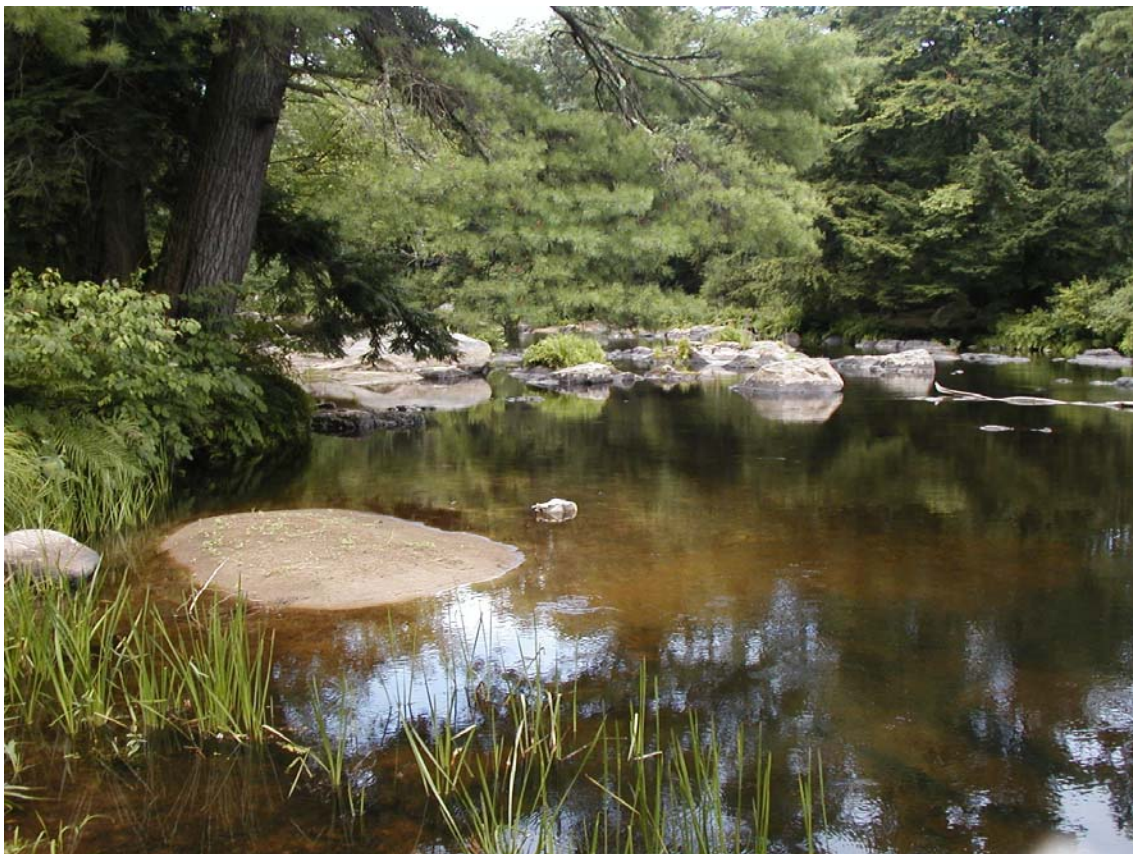


Photo No. 31, Date: 8/6/04, Courtesy Smart Associates

Description: View of the river from the channel remnant entrance, facing upstream.

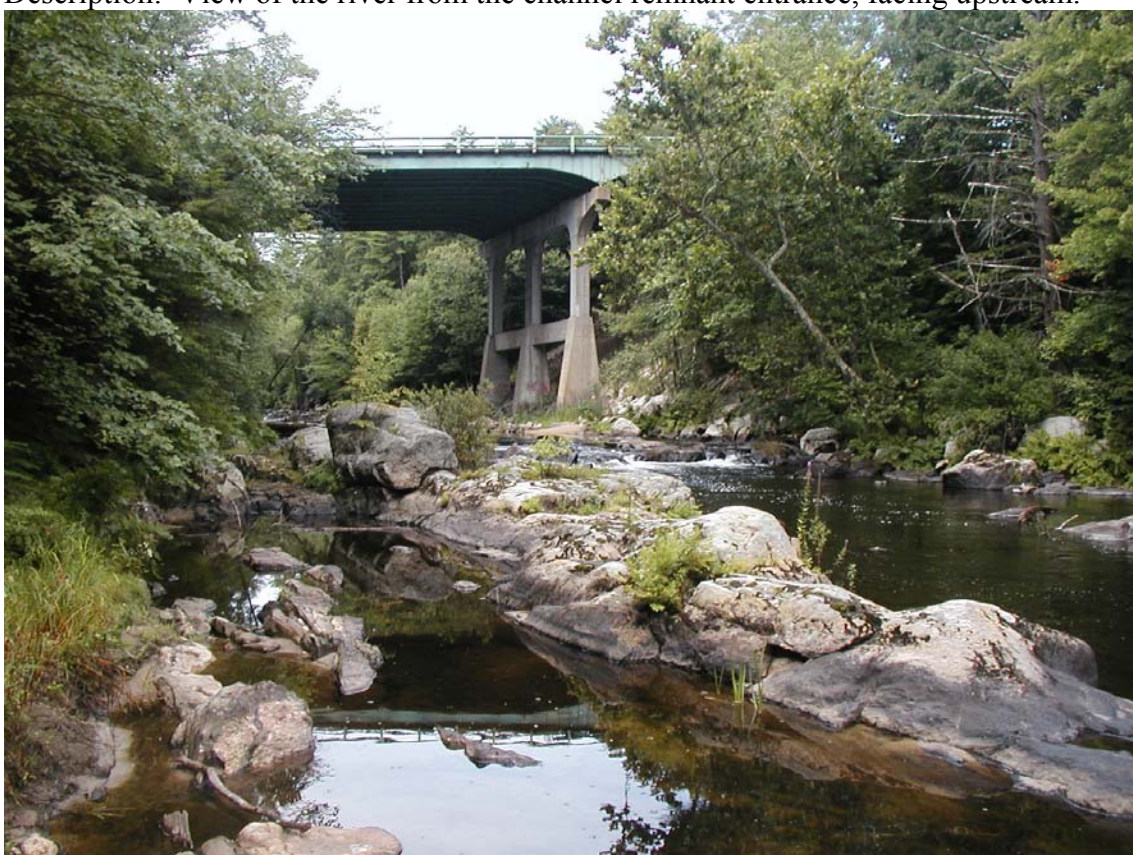


Photo No. 32, Date: 8/6/04, Courtesy Smart Associates

Description: Rocky outcrops appear just downstream of the F.E. Everett bridge crossing.

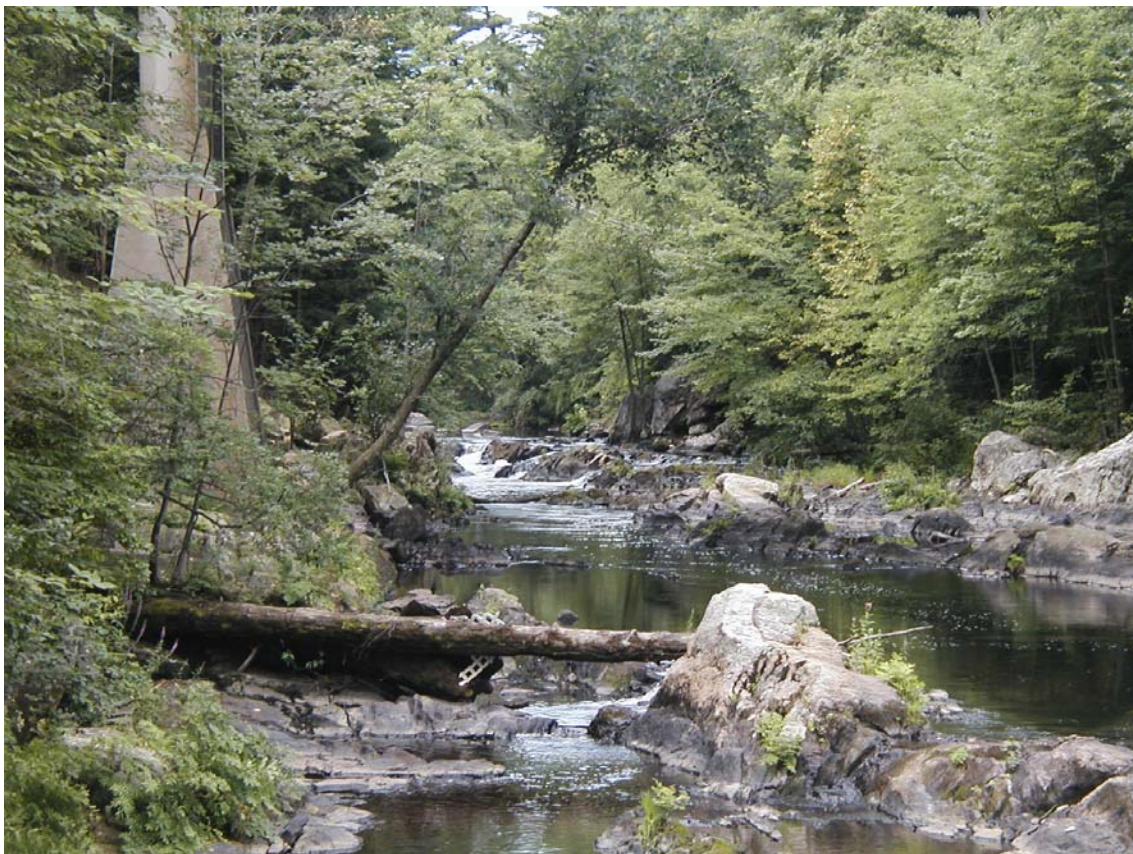


Photo No. 33, Date: 8/6/04, Courtesy Smart Associates

Description: Faster flows are evident at the F.E. Everett bridge crossing.



Photo No. 34, Date 8/6/04, Courtesy Smart Associates

Description: Evidence of past beaver activity along the riverbank, upstream of the MVD.



Photo No. 35, Date: 8/6/04, Courtesy Smart Associates
Description: Past beaver activity, upstream of the MVD.



Photo No. 36, Date: 8/6/04, Courtesy Smart Associates
Description: During mid to late summer, the impounded wetland near the Merrimack Fire Station changes.



Photo No. 37, Date: 8/6/04, Courtesy Smart Associates

Description: As water levels in the river drop, open water areas in this wetland shrink, and aquatic and emergent vegetation thickens.